

KANSAS CITYS
EXHIBIT #11: WITH PROJECT ENGINEERING PERFORMANCE

5/6/2006

Alternatives and Overall Selected Plan	Existing Condition Reliability	Future Without-Project Condition Reliability	Future With-Project Condition Reliability	<i>Incremental Increase in Reliability from the Future Without-Project Condition</i>	OVERALL RELIABILITY AGAINST 1% EVENT			EXPECTED PROBABILITY OF EXCEEDANCE (FLOODING) IN ANY GIVEN YEAR			EQUIVALENT LONG TERM RISK (Probability of Exceedance (Flooding) Over the Indicated Time Period)								
					WITHOUT PROJECT	WITH PROJECT	<i>Incremental Decrease in Annual Probability of Exceedance</i>	10 Years	25 Years	50 Years	10 Years	25 Years	50 Years	10 Years	25 Years	50 Years			
ARGENTINE UNIT	0.49	0.49			0.013			0.125	0.284	0.487									
Arg 1, nominal 500+0 raise			0.95	0.47		0.003	-0.010			0.0302	0.074	0.142	-0.095	-0.210	-0.345				
Arg 2, nominal 500+3 raise (NED Plan)			0.99	0.50		0.002	-0.011			0.0194	0.048	0.093	-0.106	-0.236	-0.394				
Arg 3, nominal 500+5 raise			0.99	0.51		0.001	-0.012			0.0132	0.033	0.064	-0.112	-0.251	-0.423				
Arg 4, No Raise, Pump Sta Improvements & Earthwork			0.90	0.42		0.004	-0.009			0.0424	0.103	0.195	-0.083	-0.181	-0.292				
FAIRFAX-JERSEY CR UNIT (2 sites)	0.82	0.82			0.007			0.064	0.152	0.281									
BPU Floodwall Solution Only; Residual Risk at JC Sheetpile Wall & Wharf Area Site																			
Alt 1, Modified Wall (Add'l Row of Piles & Buttresses)			0.823	0.006		0.006	-0.001			0.061	0.147	0.272	-0.003	-0.006	-0.010				
Alt 2, Combo Wall			0.823	0.006		0.006	-0.001			0.061	0.147	0.272	-0.003	-0.006	-0.010				
JC Sheetpile Wall & Wharf Area Solution Only; Residual Risk at BPU Floodwall Site																			
Alt 1 Flood Fight										0.018	0.044	0.086	-0.046	-0.108	-0.195				
Alt 2, New Closed Cell Sheetpile Wall			0.98	0.16		0.002	-0.005			0.018	0.044	0.086	-0.046	-0.108	-0.195				
Alt 3, New Wall, Auger Cast Piles & Tiebacks			0.98	0.16		0.002	-0.005			0.018	0.044	0.086	-0.046	-0.108	-0.195				
Alt 4, New Open Cell Sheetpile Wall			0.98	0.16		0.002	-0.005			0.018	0.044	0.086	-0.046	-0.108	-0.195				
Total Plan Fairfax-JC Unit: BPU Floodwall Solution and JC Sheetpile Wall & Wharf Area Solution			0.99	0.17		0.001	-0.006			0.013	0.032	0.062	-0.051	-0.121	-0.219				
NORTH KANSAS CITY UNIT (2 sites)	0.85	0.85			0.005			0.053	0.128	0.240									
Harlem Solution Only; Residual Risk at National Starch Site																			
Alt 1, Flood Fight				-															
Alt 2, Landside Seepage Berm			0.93	0.08		0.003	-0.002			0.034	0.082	0.158	-0.020	-0.046	-0.082				
Alt 3, Buried Collector System			0.93	0.08		0.003	-0.002			0.034	0.082	0.158	-0.020	-0.046	-0.082				
Alt 4, Pressure Relief Wells			0.93	0.08		0.003	-0.002			0.034	0.082	0.158	-0.020	-0.046	-0.082				
National Starch Solution Only; Residual Risk at Harlem Site																			
Alt 1, Relief Well System			0.88	0.04		0.005	Less than -0.001			0.045	0.109	0.206	-0.008	-0.019	-0.033				
Total Plan North Kansas City Unit: Harlem Solution and National Starch Solution			0.98	0.13		0.001	-0.004			0.011	0.027	0.054	-0.042	-0.101	-0.186				
EAST BOTTOMS UNIT (confluence site)	0.96	0.96			0.002			0.024	0.059	0.115									
Alt 1, Flood Fight																			
Alt 2 Sheetpile Wall			0.998	0.043		0.0003	-0.0017			0.003	0.008	0.017	-0.021	-0.051	-0.099				
Alt 3 Slurry Cut-Off Wall			0.998	0.043		0.0003	-0.0017			0.003	0.008	0.017	-0.021	-0.051	-0.099				
Alt 4, Pressure Relief Wells			0.998	0.043		0.0003	-0.0017			0.003	0.008	0.017	-0.021	-0.051	-0.099				
KANSAS CITYS OVERALL PLAN, PHASE 1 UNITS	.49 to .96	.49 to .96			.002 to .013														
Argentine Alt 2 (Nom 500+3 Raise)			0.99	0.50		0.002	-0.011			0.019	0.048	0.093	-0.106	-0.236	-0.394				
Fairfax BPU Alt 1 Modified Wall and JC Sheetpile Wall Alt 2, New Closed Cell Sheetpile Wall			0.99	0.17		0.001	-0.006			0.013	0.032	0.062	-0.051	-0.121	-0.219				
North Kansas City Harlem Alt 3 Buried Collector System and National Starch alt 1 Relief Well System			0.98	0.13		0.001	-0.004			0.011	0.027	0.054	-0.042	-0.101	-0.186				
East Bottoms Alt 4 Pressure Relief Wells			0.998	0.043		0.0003	-0.002			0.003	0.008	0.017	-0.021	-0.051	-0.099				
TOTAL OVERALL PLAN, PHASE 1 UNITS			.98 to .998			0.0003 to 0.002				.003 to .019	.008 to .048	.017 to .093							

Note: any discrepancies due to rounding

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